

Chang Chun Plastic PBT1200M General Purpose PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

Material Notes:

Information provided by Dowell Trading Company Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chang-Chun-Plastic-PBT1200M-General-Purpose-PBT.php

Physical Properties	Metric	English	Comments
Density	1.30 - 1.32 g/cc	0.0470 - 0.0477 lb/in ³	ASTM D792
Water Absorption	0.060 %	0.060 %	24 hour immersion; ASTM D570
Linear Mold Shrinkage	0.0080 - 0.020 cm/cm	0.0080 - 0.020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85 - 90	85 - 90	ASTM D785
Tensile Strength, Ultimate	50.0 - 60.0 MPa	7250 - 8700 psi	ASTM D638
Elongation at Break	50 - 90 %	50 - 90 %	ASTM D638
Flexural Yield Strength	75.0 - 85.0 MPa	10900 - 12300 psi	ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	ASTM D790
Izod Impact, Notched	0.440 - 0.540 J/cm @Thickness 6.35 mm	0.824 - 1.01 ft-lb/in @Thickness 0.250 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 $\mu\text{m}/\text{m}\cdot\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	50.0 $\mu\text{in}/\text{in}\cdot\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	ASTM D696
Melting Point	225 $^{\circ}\text{C}$	437 $^{\circ}\text{F}$	DSC
Deflection Temperature at 0.46 MPa (66 psi)	155 $^{\circ}\text{C}$	311 $^{\circ}\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	60.0 $^{\circ}\text{C}$	140 $^{\circ}\text{F}$	ASTM D648
Flammability, UL94	HB	HB	1/32 in.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00\text{e}+16$ ohm-cm	$\geq 1.00\text{e}+16$ ohm-cm	ASTM D257

Surface Resistance Electrical Properties	$\geq 1.00e+14$ ohm Metric	$\geq 1.00e+14$ ohm English	ASTM D257 Comments
Dielectric Constant	3.3 @Frequency 60 Hz	3.3 @Frequency 60 Hz	ASTM D150
Dielectric Strength	20.0 kV/mm @Thickness 2.00 mm	508 kV/in @Thickness 0.0787 in	ASTM D149
Dissipation Factor	0.0010 @Frequency 60 Hz	0.0010 @Frequency 60 Hz	ASTM D150
Arc Resistance	120 sec	120 sec	ASTM D495

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